IN THE CLAIMS

1-11. (Canceled)

12. (Previously presented) A modular switch comprising:

a plurality of backplane sub-buses;

a plurality of cards which are each allocated one or more of the backplane sub-buses;

and

a controller which dynamically allocates the backplane sub-buses to the plurality of cards, based on bandwidth needs of the cards;

wherein the controller calculates, for each of the cards, a bus demand value which represents an entitlement and need of the card to receive a sub-bus, and the controller allocates free sub-buses which are not allocated to the cards with the highest bus demand values; and

further wherein the controller confiscates sub-buses from cards whose bus demand value without the confiscated sub-buses is lower than the bus demand value of a different card after the confiscated sub-buses are transferred to it.

13-23. (Canceled)

- 24. (Currently amended) The method according to claim [[23]] <u>30</u>, wherein determining the bandwidth needs of the cards comprises receiving messages from the cards.
- 25. (Currently amended) The method according to claim [[23]] 30, wherein determining the bandwidth needs of a card comprises determining a measure of utilization of the sub-buses currently allocated to the card.
- 26. (Currently amended) The method according to claim [[23]] <u>30</u>, wherein determining the bandwidth needs of a card comprises listening to the sub-buses currently allocated to the card.

- 27. (Currently amended) The method according to claim [[23]] 30, wherein assigning each of the cards a bus demand value comprises assigning a bus demand value which is a function of a priority of the card.
- 28. (Currently amended) The method according to claim [[23]] <u>30</u>, wherein assigning each of the cards a bus demand value comprises assigning a bus demand value which is a function of a minimal number of sub-buses which must be allocated to the card.
- 29. (Currently amended) The method according to claim [[23]] 30, wherein allocating the sub-buses to the cards comprises allocating sub-buses not currently allocated to a specific card as additional sub-buses to the cards with the highest bus demand values.
- 30. (Previously presented) A method of allocating sub-buses to cards of a switch, the method comprising the steps of:

determining bandwidth needs of each of the cards;

assigning each of the cards a bus demand value which is a function of the bandwidth needs of the card and the current bandwidth allocated to the card; and

allocating the sub-buses to the cards based on the bus demand values of the cards; wherein allocating the sub-buses to the cards comprises confiscating sub-buses from cards which have lower bus demand values without the confiscated sub-buses than the bus demand values of other cards with the confiscated sub-buses.

31-39. (Canceled)

- 40. (Currently amended) The switch according to claim [[39]] 12, wherein a bandwidth capacity of substantially all the backplane sub-buses is less than the sum of a maximal transmission bandwidth capacity of the cards.
- 41. (Currently amended) The switch according to claim [[39]] 12, wherein the controller is implemented by one of the cards.

- 42. (Previously presented) The switch according to claim 41 wherein the controller is implemented by one of the cards which is selected dynamically.
- 43. (Currently amended) The switch according to claim [[39]] 12, wherein the cards transmit messages which indicate their bandwidth needs to the controller.
- 44. (Currently amended) The switch according to claim [[39]] 12, wherein each of the cards has a priority value which indicates its entitlement to bandwidth and the controller allocates the backplane sub-buses based on the priority values of the cards.
- 45. (Currently amended) The switch according to claim [[39]] 12, wherein substantially all the backplane sub-buses have the same bandwidth capacity.
- 46. (Currently amended) The switch according to claim [[39]] 12, wherein the plurality of backplane sub-buses comprise at least two sub-buses with different bandwidths.
- 47. (Currently amended) The switch according to claim [[39]] 12, wherein the controller confiscates one or more sub-buses from one or more of the cards when the one or more sub-buses are more needed by one or more other cards.
- 48. (Previously presented) The switch according to claim 47, wherein the controller does not allocate a confiscated sub-bus to a card before it receives confirmation from the card from which the sub-bus was confiscated that the sub-bus was freed from its allocation.

49-67. (Canceled)